

ORIGINAL LOG BOOK OF THE "FISH HAWK"

UNITED STATES FISH COMMISSION

STATION NUMBERS

Numbers 917 to 960



le, S. F. re. LECOTA 1600K 1884. 10/1 Observations 917 gring 16 th to

5.
Instrument used, III
Current number of observation, 9/7
Instrument used, 977, Frank Current number of observation, 917 Date, July 16, Locality, Off Mar That Vineyard
Locality, Off Marthas Uneyard
Bearings, Lat. 40°22' N.
Long. 70° 42' W.
Time of day, H, 10 a.M.; of tide,
State of sky, Clear
Temperature of air, 66
" surface of water, 63 (46402)
4. 45° at depth of / 0 fathoms, 49° (46°40°2) " of bottom, +2° (46°40°2)
" of bottom, 420 (46403)
Depth, in fathoms, 4 0 = 44
Nature of bottom, Palen mund
Direction of surface current, S. E. For cel,
Direction of surface current, S. E. Jones 1, Force of surface current, N. E. 3/4 miles
Direction of bottom current,
Force of bottom current,
Name of vessel, Frih Hawk.
2 dillo of recording
To what service attached, U.S.F.
Name and rank of commanding officer, 3. S. Januar
Leeut, U.S. n.
Name and position of observer,
Boy. W. P. Chapin
- Meonian.

9/7 REMARKS.

Vandalus Hoperns. ? few Aslendant of Steel tender costatus, abundant of Suralle Officio glassia ha Saisii. Indiana Suralle Congress ha Saisii. Shell.

Crangon une garies. Land.

Crangon une garies. Land.

Lyprina Inthudia sunall.

Foldia sapolitha landa.

-f
Instrument used,
Current number of observation, 9 18
Date, July 16, 1881.
Locality, Of Marchas bine, and
Date, July 16, 1887. Locality, Of Marchas binequed. Bearings, Lat. 40° 20′ 24″ n.
Lone 700 47 135" 2
Time of day. 5, 33 and of tide,
State of sky, Clear
Temperature of air,
surface of water, 63 (46402) at depth of 6 fathons, 490
" of bottom, 42° (46403)
Depth, in fathoms, $+5f$, = 46,
Nature of bottom, quen mud
Direction of surface current, wind, S.E. farec 1.
Force of surface current, 71.11.8, 1m
Direction of bottom current,
Force of bottom current,
Name of vessel.

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

918 Pandalu Hiontafrii ? very abolt cophing tarrice à continue vulgaire à Coluidia elegans . 1. Amphiera Iguamata? Meurobranchia dunatia heros Moldia Sapolilla, Cardium pennuclation Caprina Selandiers, 121448. -anomia a cultata. Jungabel -ducina filosa dend. fast m. Laconatonice arriala. Eupagurus, in Nephunea pygmaen Nephlik incisa. Scaphander punctostriala Capriella a culcata. Thinais Comadi Lead, Cancer borcalis journes Alonones um sun brhum J -Cavalina brider tota

Instrument used, Tacol
Current number of observation, 9/9
Current number of observation, 9/9. Date, July / 6, 1884.
Locality, Off Marthas Coneyard
Locality Off Marthas Crineyard Bearings, Lat. 400/6/18/1/h
Long. 700 41118" W.
Time of day, fand, ; of tide,
State of sky, Cea
Temperature of air, 70
" surface of water, 66 (46402)
" at depth of / 5 fathoms, 4 8
" of bottom, H21/2 (46403
Depth, in fathoms, $57/2 = 53$.
Nature of bottom, green much
Direction of surface current, S for Ee!
Direction of surface current, S. for El.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

9 / 9 REMARKS.

Lecken Konnicostatus veg abandut nastly snug 1-2 mil

Instrument used, Trawl
Current number of observation, 920
Date, Date, 16 1881.
Locality, Off Marchas Vineyar
Locality, Off Marchas Vineyar Bearings, Lat 400 13' M,
Time of day, 8, 20 and of tide,
Time of day, 8, 20 and of tide,
State of sky,
Temperature of air, 7 2
" surface of water, 66 46402
" at depth of / O fathoms, 4 5
" of bottom, 490 46403
Depth, in fathoms, 6 / = 63.
Nature of bottom, ween much
Direction of surface corrent, S, force /,
Force of surface current, W. Gy S. Im
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

920, REMARKS. Archarta American vegabet Andir outgain. Le elliticina perdip, dozenamore camphina I newsp. very still, Alexandranchia laida a org. Lecter terrecortations, Care many, - animia a contenta - aprina del musica - Lunder Turos. Thephener anota dich - Foldan Empolella. dorifer lenser dead Sabritis ap. offeniops Kolis a cultata. Emprograthus . St. Small, Forto Hois Norwegian How alu + 8-12. Molanda, Ampelisea gracilis. small + 1). Leribagino

Instrument used,
Current number of observation, 92/
Current number of observation, 92/ Date, July 16, 18 ft Locality, 5/1 Mountain Singular Description Bearings, Lat. 4000 ft 4841
Locality, of More Than I wenter
Bearings, Lat, 4000 71 48417
Fine of day, 4, 45 anie of tide,
Time of day, 4 5 Que of tide,
State of sky, Cleare,
Temperature of air,
" surface of water, \$\frac{1}{2}\$ (46407) " at depth of \$\lambda\$ fathoms, \$\frac{1}{2}\$ (60)
" at depth of 6 fathoms, 66
" of bottom, 520 (42663
Depth, in fathoms, $65 = 67$.
Nature of bottom, Trace
Direction of surface current, curious S. S. W. force !,
Force of surface current,
Direction of bottom current,
Farce of buttom current

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Instrument used, Tracul
Current number of observation, 922,
Date, / 6 / 8 8-1
Date, 16, 1881. Locality, 5, 0 9 allers bineyaid
Bearings, Lott. His o o o o o o o o
Long, 700 451 54" W
Time of day. O , S , of tide.
State of sky, Color
Temperature of air,
surface of water.
" at depth of / O fathoms, 500
of bottom, 5 20,
Depth, in fathoms. 69 = 71
Depth, in fathoms, 69 = H. Nature of bottom, State of the state of th
Direction of surface convent, S. W. Suile 2
Force of surface current, M. Gy W. In
Direction of bottom current.
Force of bottom current,
Name of vessel,
To what service attached.

Name and position of observer,

Name and rank of commanding officer,

Instrument used, Traw
Current number of observation, 923,
Date. Frey 16, 1851
Date, Frey 16, 1851 Locality, De Minarcha's Vincy and Bearings, Lat. 140° 01' 24" 7
Bearings. Lat. 140° 01' 24"
Xong, 700 46' Ws.
Time of day, 12, 2 Profitide.
State of sky, Cocac
Temperature of air, 74/2
" surface of water, 725
at depth of (O fathons, 555
" of bottom, 62°
Depth, in fathoms, 96 = 98,
Nature of bottom,
Direction of surface convent, S. W. Fr. Fa. 12.
Force of surface current, Ce. 11, W, 112m
Direction of hottom current

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Instrument used, Taco
Current number of observation, 924
Current number of observation, 924, Date, 16, 16
Locality, CAM MALLALE TIMEY and
Bearings, 207. 39° 57' 30 /
Line, 700 461 W.
Time of day, / 15 2 P 1 of tide,
State of sky,
Temperature of air,
" surface of water. 7
" at depth of 5 fathoms, 700 10%, 610
" of bottom, 44/2,
Depth, in fathoms, 160 = 164
Nature of bottom, Access
Direction of surface current, S. W. fa.
Force of surface current, 2 nu
Direction of bottom current,
Force of bottom current,

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Name of vessel,

ria.
Instrument used,
Current number of observation, 9 2 5
Date, July 16, 1881
Locality, Off Marchas Gregard
Bearings, day 39 051
Sery 702 4 7 17
Time of day, 3 3 5 P. Coffide,
State of sky, hazy.
Temperature of air,
" surface of water,
" at depth of 5 fathonis, 700 124, 534
" of bottom, 4 2 ",
Depth, in fathoms, 224 , $=229$.
Nature of bottom, Sand and
Direction of merface current, S. S. W., for the
Force of surface current, M. W. S., W. M.
Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Instrument used, Tracol,
Current number of observation, 926.
Date, J. Cy 16, 1884
Locality, of the a land of the angeles
Bearings, 227, 39° 56' n
doig. 700461 CU,
Time of day, 5, 24 Rollide,
State of sky, Claudy.
Temperature of air, 740
" surface of water,
" at depth of / U fathons, 68
" of bottom, 440
Depth, in fathoms, 195. = 199,
Nature of bottom, Muchanit van
Direction of Strikes Current,
Force of surface current, 7 2.1. 2/22:0

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

<i>f</i>
Instrument used, Collect
Current number of observation,
Date, July 20
Date, July 20 Locality, Merremaka Big So
Bearings Tay House Ly . House they by the
Time of day, 10, 47; of tide, los
Time of day, 10, 47; of tide, 655.
State of sky, Classely
Temperature of air,
" surface of water, 62
" at depth of j fathons, 6/
" of bottom, 59
Depth, in fathoms, //
Nature of bottom, Santag
Direction of Mineral, S.S. W. Since 2
Form of marine amount, W. 1 11. 221
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

17
Instrument used, Irani
Current number of observation, 92 8
Date, July 20
Date, July 20 Locality, Menenisha Bight
Bearings, your read Lak Miles 2 m.
a pendin Co-2 - 2 / 10.10 5 2 6 6/2 m
Time of day, //. 3/ ; of tide.
State of sky, Par The Mondy
Temperature of air,
" surface of water,
" at depth of 5 fathoms, 59
" of bottom,
Depth, in fathoms,
Nature of bottom, Sanci
Direction of surface convent, D. S. M. Forces 3
Romand supplement It by R. 2m.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Decige
Current number of observation, 929
Date,
Locality, Vineyord W. off Done to Hol
Bearings Gar Had Est H. Ham
Bearings, Gray Head S. of M. Him 1916. Charles Lah. Time of day, 12,36 P.M. of tide, Law water
Time of day, 12,35 PM; of tide, Low water
State of sky, floudy
Temperature of air, 66
" surface of water, $\mathcal{L}\mathcal{F}$
" at depth of B fathoms,
" of bottom, 6.2
Depth, in fathoms,
Nature of bottom, Sand
Direction of surface current. C, D, M. Co. 25
Force Sufficient, S. E. by S 3/4 211.
Direction of bottom current,
Force of bottom current,
Name of vessel.

Name and position of observer,

Name and rank of commanding officer,

To what service attached,

Instrument used, Dischas
Current number of observation, 930
Date, July 20
Locality, Vineyand Sd. off Quick Hole
Bearings, har Woad B by in 27
negard ist igh This KEB. 75 m.
Time of day, 1, 10 Pin; of tide, when the
State of sky, blondy
Temperature of air, 63
" surface of water, 63
" at depth of 5 fathoms, 63
" of bottom, 62
Depth, in fathoms, /2
Nature of bottom, Sand
Direction of surface current, 13. /
Force of surface convent, D. 2 6. 2 m.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Isrades
Current number of observation, 93/
Date, July 20 Locality, Vineyard Sd. Off Robinsons,
Locality, Vinegard Sd. off Robinsons,
Bearings Joseph L. R. L. L. L. C. 12. E. S. 11.
my 14 and sal 2 his & & \$ 5 1 m.
Time of day, 1,42 PM; of tide.
State of sky, Close of
Temperature of air, 63
" surface of water, 63
" at depth of Figure fathoms,
" of bottom, 6-2
Depth, in fathoms,
Nature of bottom, Sand and Shelle
Direction of surface surroun, 2 V, On 12 2
Direction of surface current, S. 2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer.

Instrument used, Litalge
Current number of observation, 932
Date,
Locality, Vinggener Sol, off and the
Bearings, Instantin Utra 29/ 16 by 1 + 8 3
Police & Sol. 11. 1 4 8 2 3 2/2 11
Time of day, 2,43 PM of tide,
State of sky, See Level
Temperature of air,
" surface of water, 66
" at depth of 5 fathoms, 66
" of bottom, 5 3
Depth, in fathoms,
Nature of bottom, Rack
Direction of surface convent, SM, Fine 2
Force of correct, M. M. A. M.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used,
Current number of observation,
Date,
Locality, Just 2000 Sel. O. 1.
Bearings, Hest Chop Lat. 5 3/4 8. 1/2 m
represent love Ly & M. 7/11.
Time of day, 3 1 1/2, of tide.
State of sky,
Temperature of air, 6 9
" surface of water,
" at depth of 5 fathous, 6
·· of bottom, 64
Depth, in fathoms,
Nature of bottom,
Direction of Surface correct, S. W. Jace 3.
Porce of miles of the State of
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer, '

Instrument used, Claraci
Current number of observation, 934
Date, July 25 Locality, Of July 25
Locality, Of God horas of weeks
Bearings, Rose, Ja Lat Mille In In
Test Charle La ! & 1/2 3 2/4 mg.
Time of day, 4,10 PM of tide,
State of sky,
Temperature of air,
" surface of water, 67
" at depth of 5 fathoms, 6 7
" of bottom,
Depth, in fathoms,
Nature of bottom, Same and grave. Direction of surface therent, S. H. Janes.
Direction of surface current, S. H. Jan 30
Force of surface current, h. M. M. 1M2.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used,

Current number of observation.

Date.

Locality,

Bearings,

Time of day, ; of tide,

State of sky,

Temperature of air,

.. surface of water,

·· at depth of fathoms,

" of bottom,

Depth, in fathems,

Nature of bottom.

Direction of surface current,

Force of surface current.

Direction of bottom current,

Force of bottom-current,

Name of vessel,

To what service attached.

Name and rank of commanding officer,

Name and position of observer,

1 1

= 48 2

Instrument used,
Current number of observation,

Date,

Locality,

Bearings,

Time of day,

; of tide,

State of sky,

Temperature of air,

" surface of water,

" at depth of fathoms,

of bettem,

Depth, in fathoms,

= 716,

Nature of bottom,

Direction of surface current,

Force of surface current,

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer.

Instrument used.
Current number of observation,
Date,
Locality,
Bearings,
Time of day, , of tide,
State of sky,
Temperature of air.
surface of water,
" at depth of fathoms,
of bottom,
Depth, in fathons, = 5/6. Shouldbe
Nature of bottom,
Direction of surface current.
Force of surface current.
Direction of hottom current,
Force of hottom-corrent.
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer

Instrument used,
Current number of observation,
Date,
Locality.
Bearings.
Time of day, ; of tide,
State of sky,
Temperature of air.
surface of water,
at depth of fathons,
" of bottom.
Depth, in fathoms, = 317.
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Fo what service attached.
Name and rank of commanding officer,

Instrument used,
Current number of observation,
Date,
Locality,
Bearings,
Time of day, ; of tide,
State of sky,
Temperature of air,
" surface of water.
" at depth of fathoms,
of bottom,
Depth, in fathoms, $= 26 \%$
Nature of bottom,
Direction of surface current,
Force of surface corrent,
Direction of bottom current,
Force of Lotton current,
Name of vessel,
Fo what service attached,
Name and rank of commanding officer,

Instrument used.
Current number of observation,
Date,
Locality,
Bearings, -
Time of day, ; of tide,
State of sky,
Temperature of air,
" surface of water,
" at depth of fathoms,
" of bottom,
Depth, in fathoms, = 134
Nature of bottom,
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used,
Current number of observation,
Date,
Locality.
Bearings,
Time of day, ; of tide,
State of sky,
Temperature of air.
" surface of water.
" at depth of fathoms,
of bottom,
Depth, in fathoms, $=79$.
Nature of bottom.
Direction of surface current,
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
Fo what service attached.
Yama and rank of commanding officer

Instrument used, Drease
Current number of observation.
Date, Ang. 9th
Locality, Sat. 400,01' /
Bearings. Song 7/ . 12', 36" //.
Time of day, (// // // ///; of tide,
State of sky, Glear
Temperature of air, 72
" surface of water,
" at depth of 5 fathoms, 690, 10 facts 69
" of bottom, 50°
Depth, in fathoms, $/34 = /38$
Nature of bottom. Sand and mil med
Direction of surface convent
Force of surface current. 15 Mills 1. 2711. Jison fuera and all processing of Surface current, 25 y. 52
Disonfeed and all promises of L
Force of horton currents 50 / 75
Name of vessel,
To what service attached,
Name and rank of commanding officer.

Instrument used, Decide
Current number of observation.
Date, Org 988 Locality, Sal- 40. 11.
Locality, Sal. 40. M.
Bearings, Song 71, 14,30" 11
Time of day, 7/0 a.M; of tide,
State of sky, Clear
Temperature of air. 76
" surface of water,
" at depth of 5 fathoms, 69°, Ox. 6
" of bottom, Lg
Depth, in fathoms, 153 = 157,
Nature of bottom. Mind, Band & Shell's
Direction of surface convent, A. M. J. C. C.
214
Direction of bottom current, 2 4. 62
Force of bottom current, 50 \$ 536
Name of vessel,
To what service attached,
Name and rank of commanding officer.

Instrument used, Signate
Current number of observation,
Date, Ang. 9 H
Locality, Lat 40.01' W.
Bearings, Song 71°. 14, 30" M.
Time of day, & 2 7 Colli; of tide,
State of sky, Clear
Temperature of air, 78°
" surface of water, 70°
" at depth of 6 fathoms, 68, 10 %.
" of hottom, 376
Depth, in fathoms, /24 = 128
Nature of bottom, Sand, Med & Shell
Direction of surface current,
Force of inforce intent.
Direction of surface current. Force of surface current. Samples where af Direction of Lottom current, 50 f. 50
Force of lottom current.
Name of vessel.
To what service attached,
Name and rank of commanding officer,

P7"
Instrument used, Januar
Current number of observation,
Date, and get
Date, Ang. 9 CA Locality, Sal. 39° 58' J. Bearings 1 7/0 /2'
Bearings, Song. 7/0 /3'
,
Time of day, /2,05 ; of tide,
State of sky, Clear.
Temperature of air,
" surface of water, 7/4
" at depth of 5 fathoms, 75, 10 f 67°
" of bottom, 44°
Depth, in fathoms, $262 = 207$.
Nature of bottom, An mid Francis
Direction of surface corrent,
Eoree of surface current, A. M.
Direction of surface current, Eorce of surface current, Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Jennet
Current number of observation, 946
Date, Ong, 9th
Date, Ong, 907. Locality, Sah, 39', 55', 30"
Bearings, Long, 7/, 14'
Time of day, 2 PM; ; of tide,
State of sky, Clear
Temperature of air, 75° 5°
" surface of water, 7/
" at depth of 5 fathous, 6/2 /6 6
" of bottom, 279
Depth, in fathoms, $2H/=247$.
Nature of bottom, Son March and Sand
Direction of surface current,
Force of surface current, J. I. 1/2/12
Direction of surface current, Force of surface current, Direction of tottom current,
Force of hottom current, " 5 6 f. 523
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Old
Current number of observation, 947
Date. A. 9. 63, 30"
Locality, Lat. 139, 53, 30"
Bearings, Long. 710, 131, 36"
Time of day, 4 PM, ; of tide,
State of sky, Clear
Temperature of air,
" surface of water, 70°
" at depth of 6 fathoms, 60°, 10 f. 55
" of bottom.
Depth, in fathoms, $3/2 = 3/9$,
Nature of bottom, Direction of surface current, S. H. J.
Direction of surface current,
Direction of bottom current,
Force of hottom corrent, " 50 f 50°
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Instrument used, Uzzar
Current number of observation,
Date, Aug. 18 1.
Locality, Bushamis Engl
Bearings, Pros. House Sulance & 2. M.
Time of day, 5,20 PM; of tide,
State of sky, A COM
Temperature of air,
" surface of water,
4 at depth of fathoms,
" of bottom,
Depth, in fathoms,
Nature of bottom, A Many - shells Direction of surface current, S. M. Crace H
Force of surface current,
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

/
Instrument used,
Current number of observation, 944, Date, 662, 23, 1884
Date, Class, 23, //884
Locality, S
Bearings.
Som to 3/ m.
Time of day, 20 ; of tide,
State of sky, Clar
Temperature of air, 68
" surface of water, 66
" at depth of 5 fathoms, 6 6
" of bottom, 5 2 .
Depth, in fathoms, / G O .
Nature of bottom, yellow much, Direction of surface current, hand M, force. 3
Direction of surface current, Mend M, force. 3
Force of surface current, Drift N, N, 17, 2 m.
Direction of bottom current.
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

9 4 9 -REMARKS.

Containing Capt Chesties

and of him was afficient to fish

but Lopeto Caicins, while

Che anke de orge mest

brime, and leife to

che demende de chest

on the demende de

Instrument used, Traco
Current number of observation, 950,
Current number of observation, 950, Date, Octo, 23, 183
Locality. Of Phila Trade Williams
Bearings, Lat. 40° 07 12.
Long. 70° 3'2' 11.
Time of day, 5, 50 ax; of tide,
State of sky, Clear
Temperature of air, 69
" surface of water,
" at depth of fathoms,
" of bottom, 52°
Depth, in fathoms, 69
Nature of bottom, Sand, Shells, 1. 1.
Direction of surface current, M. force 4.
Nature of bottom, Sand, Shells, 1.220. Direction of surface current, M. force 4. Porce of surface current, M. M. 17, 1/2 m.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

950,

REMARKS.

Alchaile americano, 3 bueron

9
Instrument used, Transit mit britis.
Current number of observation, 957
Date, aug. 23, 1881.
Locality, Communication of the state of the
Current number of observation, 957. Date, Queg. 23, 1881. Locality, G. 37. Bearings, Copy 70 3/4 25" M.
Time of day, 9, 40 gran; of tide,
Time of day, 9, 40 and; of tide, State of sky, Clear,
Temperature of air, 78°
" surface of water, 6 7 1/2 °
" at depth of 5 fathoms, 65°
" of bottom, '// '
Depth, in fathoms, 2/9,
Nature of bottom,
Direction of surface current, W. 11. 17 force 3. Force of surface current, N. 1/2 m.
Direction of hottom current,
Force of bottom current,
Name of vessel,
To what service attached.
Name and rank of commanding officer,

Frist have chainings were word and on trans. Trought whe alean load, large Sarpa, Shring, Phyromonia large Copy, it is a suit but serve talkae Chian.

Frankliche hours

Koris een linding

Wilson nogen ' jageth)

Filefelier

Cost Cherries are and Control of Cost of Cherries and and control of Cherries of Cost of Cost of Cost of Cherry Control of Cost of Cherry Control of Cherry Control of Cherry Control of Cost of Cost

<i>→</i>
Instrument used, J.D. R. J. Communication of the co
Current number of observation, 952,
Date, CLU2 20, 18 7.
Locality, Oh & Haribai Vincyard.
Bearings, 507. 39 0 55 7
dong. 70° 281 w,
Time of day, / /, 2 8 ; of tide,
State of sky, Claat.
Temperature of air, F 72
" surface of water, 68,
" at depth of 5 fathoms, 6 6.
" of bottom, 40,
Depth, in fathoms, 388,
Nature of bottom, The owner and and sand Direction of surface current, IV. 11. IV. force 2. Force of surface current, 11 & by 11. 1/12.
Direction of surface current, IV. 11. W. force 2,
Force of surface current, 11 & by 12 112 20
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

952 - REMARKS.

An ming many Endored.

Into 13 annel girh allopora.

Many make Modice as

deep near novembre lake about

12 bushel Chroin away

dech nea novemblike about 12 brishel Chroin away 30 Urthick and he was

Instrument used, Tracol Weik www.
Current number of observation, 953
Date, And , 23 / 1884
Locality. Character to the Very and
Bearings, and 3 1 3-6
2019 70° 17/30".
Time of day, 2, 3 o Ry; of tide,
State of sky,
Temperature of air,
" surface of water, 68,
" at depth of 5 fathoms, 64,
of bottom, 39//2
Depth, in fathoms,
Nature of bottom,
Direction of surface current, WILIV, force 2.
Direction of surface current, Willy, force 2. Porce of surface current, 77. 71.11, 1/2 m.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

Anale Enveloper

Instrument used. Ferrel With wings
Current number of observation, 9 57
Date, Aug. 23 1881.
Locality, Original of the state
Bearings, Sct. 39053111,
Date, Aug. 23 1881. Locality, 5 3 9 5 3 111. Long. 70 0 18 30 4 W.
Time of day, H, 50 Pty; of tide,
State of sky, CC A
Temperature of air, 74,5
" surface of water, 6 8
" at depth of 5 fathoms, 65,
" of bottom, 39//2
Depth, in fathoms, 642.
Nature of bottom, faud and fruid
Direction of southern current, (U) = 17. for 20 7.
Farch of surface current, n.n. n. n.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,

954 -REMARKS. of maler hand leke. and july just. du one of the hard In the other a just curdance, Saquila, including the lateral Cojulos. Lich lane been obtained in all of the intel to do of another how species of tremendow deza trialurung Just 1/2 nich dong, represented

I gent with long.
Instrument used, The recent livery of
Current number of observation, 9 5 5,
Date, aug. 20, 1881.
Locality, Volume 100 16 aug.
Bearings, Tyli ne oc.
E. by C., It mile
Time of day, / O, & Danie of tide,
State of sky,
Temperature of air,
" surface of water.
" at depth of fathoms,
" of bottom, 620, 68"
Depth, in fathoms,
Nature of bottom, Land
Direction of surface current, 3.77. Force 3,
Direction of surface current, T. T. Joses 3, Ereft Force of Surface current, N. 64 S /4 S. 1/2 na.
Direction of bottom current,
Force of bottom current,
Name of vessel,
To what service attached,
Name and rank of commanding officer,
Name and position of observer,

955, REMARKS.

Large and of deal eclipses and mon Cliona enclose

A (-1.
Instrument used, 756 Frank mich line,
Current number of observation, 956
Date.
Locality, 2007, 100 12 12 12 12 12 12 12 12 12 12 12 12 12
Bearings, $\frac{1}{8}$ m.
Time of day, 11, 26 and; of tide,
State of sky, Clar,
Temperature of air,
" surface of water, 6 9
at depth of fathons, of bottom,
Depth, in fathoms, 5/4.
Nature of bottom,
Direction of surface current. On W. 201 Ce D.
Force of surface current, IV, Ley S. 114 nm
Direction of bottom current,
Force of bottom current,
Yame of vessel,
To what service attached.
Name and rank of commanding officer,

Same character of botton as Last, dead Cal grain. Practice disciplines of Character ata Cliona Surfationes.

Instrument used, Trouble in the leave, J
Current number of observation, 957.
Current number of observation, 957 Date, Quest, 26, 188
Bearings, My in Mcc/c S. S. E. 2/4
Bearings, Thy 2. Mcde S. S. E. 3/4
E. 1/8 m.
Time of day, // 45 ; of tide, obb,
State of sky, Cleat.
Temperature of air, 73,
" surface of water, 69,5
·· at depth of fathous,
" of bottom, 68,
Depth, in fathoms, Q
Nature of bottom, & accord it homes,
Direction of syntage current, S. W. force 4,
Form of simple current. 17, 3/4 / 14 /4 20-

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

Flinga receond

Instrument used, Trawl With hungs
Current number of observation, 958,
Date, 36, 1551.
Bearings, Tu, 23 The Color S, by E,
Bearings, Teneral S. L. E.
1/4 8. 10
Time of day, / 2 , 2 6 ; of tide, 2 6 .
State of sky, CCar,
Temperature of air, 7,
" surface of water, 70,
·· at depth of fathons,
·· of bottom, 68,
Depth, in fathoms, 5,
Nature of bottom, Sand, Stones Mells,
Direction of surface convent,
Force of surface current, A. S. 17.
Direction of bottom current.

Force of bottom current,

Name of vessel,

To what service attached.

Name and rank of commanding officer,

Lacken Calcina,

T
Instrument used, drawl noth long.
Current number of observation, 959.
Current number of observation, 939. Date, Queg. 26. 1861.
Locality, Dung gards /Bag. Bearings No. 18 6/5 5
Bearings, Hyer Heck S.
12 m,
Time of day, / 2, 4 ore; of tide, Lbb,
State of sky, Clair.
Temperature of air, 72.
" surface of water, 69,
·· at depth of fathous,
" of bottom, 68,
Depth, in fathoms,
Nature of bottom, Pand, stone, shell
Direction of surface current, S. M. force 5,
Porce of surface current, 17, 1/2 mile

Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,

~
Instrument used, Tracker trackering,
Current number of observation,
Date, aug. 26, 1887,
Locality, Buzzar& Bay,
Locality, Buggards Bay, Bearings, Nyes Heck S. 3/4 E,
1/2 m,
Time of day, 1, 1 0 Rep of tide,
State of sky, Clear,
Temperature of air, $\neq 2$, $\sqrt{5}$
" surface of water. 69,5
·· at depth of fathoms.
·· of bottom, 68,
Depth, in fathoms, 4/2
Nature of bottom, Level, Deres, Thells,
Direction of surface current, S. W. Lorce 5.
Direction of surface current, S. W. force 6. Force of surface current, S. W. by W. 1/2 111
Direction of bottom current,

Force of bottom current,

Name of vessel,

To what service attached,

Name and rank of commanding officer,